8(3)

AUTHOR:

Portnoy, M. G., Engineer

SOV/105-58-12-4/28

TITLE:

On the Case of Subharmonic Resonance During the Incomplete Phasing Conditions on the Line (Sluchay subgarmonicheskogo

rezonansa pri nepolnofaznom rezhime linii)

PERIODICAL:

Elektrichestvo, 1958, Nr 12, pp 18 - 22 (USSR)

ABSTRACT:

The following case is investigated: The voltage transformers which are at either end of the line connected up to the phase to be cut off were damaged when one phase of the 110 kV-line, which was 67 km long, was cut off. The investigations carried out by the VNIIE together with the Moldavenergokombinat (V. M. Popov, G. T. Fomichev, N. B. Glagoleva, M. P. Savitskaya, and the author took part in it) showed that a subharmonic resonance results from disconnecting one phase of the line. With this resonance the current strength in the voltage transformer rises approximatively fifteen-fold when compared with the magnetising current. It was determined that the magnetisation curve of voltage transformers is far remote from that described in formula (1) (which is recommended

Card 1/3

in the works, references 1,2,3,4). The investigation could

On the Case of Subharmonic Resonance During the Incomplete Phasing Conditions on the Line

SOV/105-58-12-4/28

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therefore not be carried out according to the methods described in the works (Refs 1,2,3,4). The method of mathematical modelling was applied which is described in Korn's work (Ref 5). The differential equation (3) is derived and the equivalent diagram of the circuit during the incomplete phasing conditions on the line is investigated. A comparison of the oscillograms shows that mathematical modelling according to formula (3) leads to results which correspond well with those of the test. An explanation for the production of subharmonic oscillations on the circuit-diagram having been investigated here is given. Then the dependence of the subharmonic current strength on the circuit parameter is investigated and the corresponding formulae are derived. In conclusion the following was determined: In order to avoid the formation of subharmonic resonance on 110 kW lines when these are transformed to lines with incomplete phasing conditions it is sufficient to insert a transducer resistor of 4 kOhm, calculated for a continuous current flow of 0.2 amperes, on the high tension side of the voltage transformer. The operating of the voltage transformer is not getting defective by putting in such a resistor. This precaution, is

Card 2/3

On the Case of Subharmonic Resonance During the Incomplete Phasing Conditions on the Line

507/105-58-12-4/28

but only necessary in cases where an automatic phaselike reconnection of the line is carried out with an automatic crossing on a line with incomplete phasing conditions. When an automatic crossing on a line with incomplete phasing conditions takes place, it is sufficient to disconnect the voltage-transformers before disconnecting the phase. The voltage transformers can be reconnected later on in case they are wanted. There are 8 figures and 7 Soviet references.

SUBMITTED:

May 31, 1958

Card 3/3

AUTHOR:

GOAN . SOV/144-59-2-3/19

Fel'dhaum, A.A. Professor, Doctor of Technical Sciences, Luginskiv, Ya.N. and Portnoy, M.G., Engineers Discussion (on the Use of Brectronic Simulators for

TITLE:

Investigating the Stability of Parallel Operation of

Alternators of Comparable Power)

PERTODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 2, pp 27 - 30 (USSR)

ABSTRACT: Professor A.A. Felidbaum, Doctor of Technical Sciences at

the USSR Academy of Science's Institute of Automatics and Telemechanics, said that some of the faults he had to find with the paper were the absence either of detailed comparisons with practical or theoretical investigations or of comparison with results obtained on other analogue machines, or mention of electromechanical models or digital methods. In the USA analogue machines have been used for problems on the control and flow of power in large systems. The advantage of operating analogue machines in real time was the possibility of including real hardware such as regulators and relay protection,

etc. A disadvantage was the need for the intermediate Card1/3 step of setting up all the equations in a suitable form;

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APPROVED FOR RELEASE: 06/15/2000

SOV/144..59..2..3/19
The Stability of Parallel Operation of Alternators of Comparable

Power)

any factor left out would not appear in the final solution. The question of error was important and difficult; in fact, in some cases the assessment of error was more tedious than the problem itself. The errors likely to be expected ranged from \pm 0.01% to \pm 1%, depending on which unit was considered. There were, however, three important influences on accuracy. The first was that due to error accumulation. In the simplest form it appears when commoning the outputs of several units. The second was amplifier error - was more serious and was a feature of the successive connection of amplifiers. Thirdly, there was feedback error, which when simulating a highly undamped process, could give hopelessly wrong results. The use of analogue and digital machines in hybrid arrangements was briefly hinted at. Ya.N. Luginskiy and M.G. Portnoy, Engineers at the All-Union Electrical Energy Scientific Research Institute, gave some additional references to published work on the

Card2/3

Discussion (on the Use of Electronic Simulators for Investigating the Stability of Parallel Operation of Alternators of Comparable

present topic. They had done work in this field in 1958 (Ref 6). The first step in their analysis had been the behaviour of an alternator when connected to infinite busbars. The starting point was the Gorev-Park set of equations. The simulation later included various kinds of voltage regultor. The machine comprised several blocks from IPT-5 and KNB. It was used for studies on self-synchronization (Ref 7), resynchronization (Ref 8), excitation control (Ref 9), prime-mover governing (Ref 10) and so on. A preliminary study was made of the problem of interconnecting several generating stations of comparable power. The strict solution required a prohibitive amount of hardware.

There are 10 references, 7 of which are Soviet and

ASSOCIATIONS: IAT and VNIIE

Card3/3

MAMIKONYANTS, L.G., kand.tekhn.nauk; PORTIDY, M.G., inzh.

Synchronization process of water-wheel generators. Elektrichestvo no.3: 18-23 Mr '59. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki. (Electric generators)

PORTNOY, M. G., Cand Tech Sci -- (diss) "Resynchronization in Electrical Systems After Desynchronization of the APV [?]." Moscow 1960. 16 pages. (Ministry of Higher Education USSR, Moscow Power Institute, Order of Lenin); 150 copies; price not given. (KL, 25-60, 134)

8(5) AUTHOR:

Portney, M.G., Engineer

sov/105-60-1-15/25

TITLE:

On the Resynchronization of Synchronous Generators

PERIODICAL:

Elektrichestvo, 1960, Nr 1, pp 73-78 (USSR)

ABSTRACT:

A method for the computation of the conditions under which the synchronization is restored, as well as for the determination of the length of the asynchronous running is given here. The process is described first and the phenomena occurring during the interruption of synchronization and its restoration are investigated. This is done with the example of a turbogenerator which delivers its power into a system with unlimited output. It is shown that in the case of both parts of the system showing outputs comparable with each other, each part can be replaced by an equivalent generator. The resynchronization of a generator with a system of unlimited output, as well as the resynchronization of two machines comparable with each other, are therefore investigated here. In the first case, the resynchronization is warranted, provided the equation (4) is adhered to. Vice versa, the resynchronization can occur when the mean slip is nearing its stabilized magnitude during

Card 1/4

On the Resynchronization of Synchronous Generators

sov/105-60-1-15/25

overcompensation (Fig 2, curve 2). The method explained in the paper (Ref 6) can be applied for the setup of the curve for the mean slip. The extreme magnitude for the moment K_{m} (difference between the turbine moment and the inherent moment) at which resynchronization sets in without fail, is determined from equation (7). The results of its computation from equation (7) coincide with those which were obtained from the mathematical simulator. The following persons participated in the computations with the mathematical simulator: L.M. Gorbunova and Ts.G.Gugunishvili. The circuit schemes used are mentioned in the paper (Ref 7). Computations for the determination of the synchronization probability were also carried out with the mathematical simulator .- Computing the dynamic stability of two machines comparable with each other with respect to their output is carried out usually in accordance with the method of the reduction to one machine, shown in the paper (Ref 3). The conditions under which a resynchronization of two generators occurs are investigated and the necessary equations are written down .- The following is stated in conclusion: After the obstruction of the dynamic stability or after an asynchronous switching on, a resynchronization occurs

Card 2/4

On the Resynchronization of Synchronous Generators

507/105-60-1-10/20

often in electric systems without the interference of the personnel. The most essential influence on the resynchronication is exerted by the turbine moments (which alter union the influence of the speed regulators), the aspectronous material and the moments caused by the load and efficiency leades in the transmission lines .- If the conditions for the respachronization are not adhered to, mandares must be taken a you warrant a respectronization, as for example: automavic master lations action on the controllers of the primary motors, or installations carrying out the awisoning out (and selection on again after resynchronization) of some consumers or a section of the power station generators. The test with turbegenerator TV-25 is described in the appendix and its results are compared with those of the computation, a loca agreement being found. Agars from me author, A. N. Arasnovska (A.M. Citel makner, V.S. Krivko, V.M. Nactocaly and L. a. older participated in the test. There are 7 figures and 1 series references.

ashidlaT10%: Card Dya Vsescyuznyy nauchno-iseledovatel'skly institut slektroener. 300/1

On the Resynchronization of Synchronous Generators 50V/109=60-1-19/29

(All-Union Scientific Research Institute for Algebric Sower

Engineering)

SUBLITUED: June 14, 1959

Card 4/4

ROSMAN, Lev Madimirovich; PORTNOY, M.G., red.; SHIROKOVA, M.M., tekhn. red.

[Group control of the excitation of synchronous generators of hydroelectric power stations] Gruppovoe upravlenie vozbuzhdeniem sinkhronnykh goneratorov gidroelektrostantsii.

Moskva, Gosenergoizdat, 1962. 167 p. (MIRA 15:8)

(Electric generators)

(Hydroelectric power stations)

GRUZDEV, Iger' Aleksandrovich; KADOMSKAYA, Kira Panteleymonovna; KUCHIMOV, Leonid Aleksandrovich; LUGINSKIY, Yakov Natanovich; PORTHOY, Marlen Gdalevich; SOKOLOV, Nikolay Ivanovich; HIKOLAYEVA, M.I., red.

[Use of analog computers in electric power systems; methods for studying transient processes] Primenenie analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh; metody issledovanii perekhodnykh protsessov.
[By] I.A.Gruzdev i dr. Moskva, Energiia, 1964. 407 p.
(MIRA 18:2)

GORBONOVA, L.M., anzh.; LUGINSKIY, Ya.N., inzh.; NOVAKOVSKIY, A.N., inzh.; PORTNOY, M.G., kand.tekhn.neuk; STRYUTSKOV, V.K., inzh.

Analog computer for studying electromachanical transients in electric power systems. Elektrichestvo no.5:1-6 My '65.

(MIRA 18:6)

1. Vseseyunnyy nauchno-issledovatel skiy inatitut slektro-energetiki.

L-1:052-66 EWT(d)/EWP(1) IJP(c) BB/GG ACC NR: AF6001791 SOURCE CODE: UR/0105/65/000/005/0001/0006 AUTHOR: Gorbunova, L. M. (Engineer); Luginskiy, Ya. N. (Engineer); Novakovskiy, A. M. (Engineer); Stryutskov, V. K. (Engineer); Portnov, M. G. (Candidate of technical sciences) ORG: none TITLE: Analog computer for studying transient electromechanical processes in power networks SOURCE: Elektrichestvo, no. 5, 1965, 1-6 TOPIC TAGS: analog computer, computer application, computer calculation, computer simulation, electric engineering, electric network ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorev-Park equations with the necessary assumptions or by the equations of motion assuming a constant emf behind
AUTHOR: Gorbunova, L. M. (Engineer); Luginskiy, Ya. N. (Engineer); Novakovskiy, A. N. (Engineer); Stryutskov, V. K. (Engineer); Portnov. M. G. (Candidate of technical sciences) ORG: none TITLE: Analog computer for studying transient electromechanical processes in power networks SOURCE: Elektrichestvo, no. 5, 1965, 1-6 TOPIC TAGS: analog computer, computer application, computer calculation, computer simulation, electric engineering, electric network ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorev-Park equations with the necess-
TITLE: Analog computer for studying transient electromechanical processes in power networks SOURCE: Elektrichestvo, no. 5, 1965, 1-6 TOPIC TAGS: analog computer, computer application, computer calculation, computer simulation, electric engineering, electric network ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorey-Park equations with the necession.
TITLE: Analog computer for studying transient electromechanical processes in power networks SOURCE: Elektrichestvo, no. 5, 1965, 1-6 TOPIC TAGS: analog computer, computer application, computer calculation, computer simulation, electric engineering, electric network ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorey-Park equations with the necession.
TOPIC TAGS: analog computer, computer application, computer calculation, computer simulation, electric engineering, electric network ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorey-Park equations with the necessions.
ABSTRACT: The article describes the design and operation of an analog electronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorey-Park equations with the necessions.
tronic generator built to simulate a power network for the purpose of studying the electromechanical transients. The terminal voltage of this generator is computed from the currents either by the Gorey-Park equations with the necessity.
the transient impedance. The $sin(w_0t + \delta)$ function is obtained by the method of composing velocities rather than by the method of composing angles. This way the circuit elements of the computer do not have to meet such stringent.
requirements as to their dynamic characteristics; the function converter has to work over the range of angle variation from -TT to +TT instead of covering
a range of 6T; also distortions at the instant of periodization are thus avoided. The entire device consists of five units. In the first one, the
Card 1/3 UDC: 681.14:621.311.1

L 11052-66 ACC NR: AP6001791

"circuit equation unit" (CEV) solves the equivalent equations of electromagnetic processes in the rctor; it also calculates the difference between electrical and mechanical torques as well as the accelerations. The latter quantity is fed into the second unit, the "integration of the equation of motion unit" (IENV) where the displacement angle is calculated. The solution is converted into a voltage at line frequency in the third unit, the "voltage conversion unit" (VCV) which is also the output stage of the device. There are two more intermediate units, namely one for current conversion (CCV) where the alternating load current is resolved into the direct-axis and the quadratureaxis component. The regulator unit (RV) contains a model of both the excitation and the speed regulators. The device has certain features which made it possible to reduce its size as compared to the universal computer for solving the same problem: the number of amplifiers necessary for performing multiplication with components along the d- and q- axes has been reduced by half through combining the SEP-LM paired product units feeding the common summator. Another size-reducing feature is the use of RC circuits in the feedback loops and at the inputs of amplifiers. The article continues with the analysis of several operations performed by the computer, namely: the simulation of synchronous machine equations, the transfer from a mathematical model of the generator to a static model of the network (the latter is done by the "voltage conversion" and the "current conversion" units, while the former is done by the CEV and the IEW). The regulator unit is described next, it is designed for varying and adding parameters and simulating frequency or angle regulation as well as water hammer or other conditions in the turbine-generator system. For calcu-Card 2/3

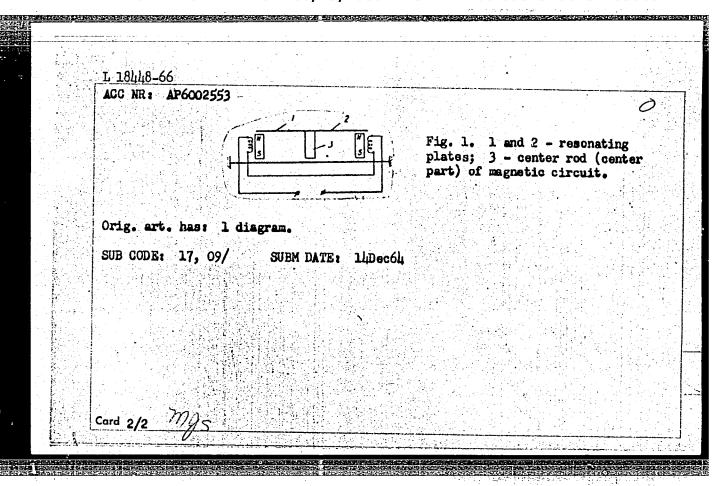
L 11052-66 ACC NR: AP6004791

lating stability and asynchronous conditions it is common practice to replace individual portions of a complex power system by equivalent generators and to solve their equations of motion including all electromagnetic and mechanical torques. An analog network for this kind of calculation is shown here separately. The article concludes with a description of general features of the model EGS-2 analog device which surpasses all other existing medium-capacity models in the number of multiplying networks. All components are designed for high reliability, with thyrites, semiconductor and thin-film resistors; the same type elements are used in the multiplying networks and in the sinecosine function generators. The computer was checked out in simulating and calculating a 115 MW hydro-generator SV 1250/88 feeding an infinite bus through a line whose impedance is $x_L = 0.28$, $r_L = 0.06$ (per unit), at constant torque and constant excitation. The accuracy of the computer calculations were evaluated and on this basis several systems installed in Siberia were studied. It is suggested that development work be continued toward simplifying the electronic analog generator construction, also toward increasing its accuracy and stability. Orig. art. has: 7 figures and 8 formulas. /JPRS7

SUB CODE: 09 / SUBM DATE: O6Feb64 / ORIG REF: 007 / OTH REF: 002

Card 3/3

ACC NR: AP6002553 (A) SOURCE CODE: UR/0286/65/000/023/0053/0053
AUTHORS: Nartov. Yu. A.; Sobolev, V. M.; Portnoy, M. G.
ORG: none
TITLE: Acoustic receiver. Class 42, No. 176699
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 53
TOPIC TAGS: acoustic transducer, acoustic detector, electromagnetism, magnetic circuit, radio receiver ABSTRACT: This Author Certificate presents an acoustic receiver based on the
production of an output voltage by modulating a magnetic flux and contains
of other consistence and a membrane. To provide for selective semples of the
acoustic signals and to increase the sensitivity, the electromagnetic system has resonating plates made of magnetically soft material recented resonating plates made of magnetically soft material recented resonations.
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1. 21789-66 FYT(d)/EVT(m)/EVP(v)/EVP(t)/EVP(k)/EVP(h)/EVP(1) JD SOURCE CODE: UR/0286/65/000/024/0079/0079

AUTHORS: Nartov, Yu. A.; Portnoy, M. G.

ORG: none

TITLE: A device for controlling the thickness of galvanic coatings of items. Class 42, No. 177095

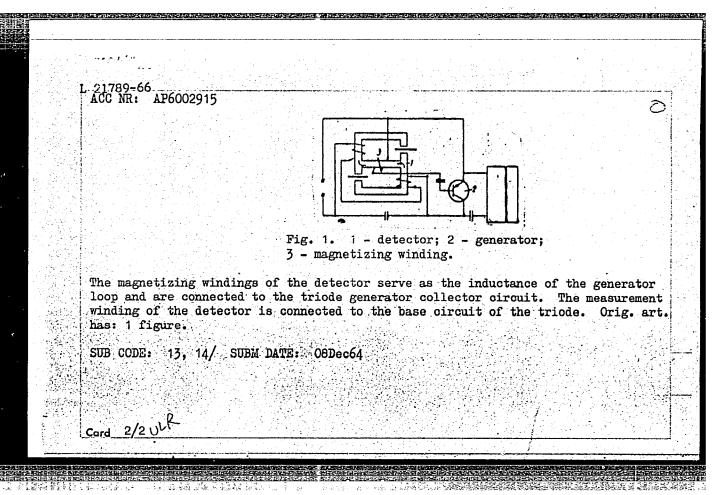
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 79

TOPIC TAGS: thickness gage, sensitivity increase, control equipment, magnetic analysis, circuit design

ABSTRACT: This Author Certificate presents a device for controlling the thickness of galvanic coatings of items. The device includes an electric induction detector with a three-bar symmetric core. The lateral bars of the core are provided with differentially connected magnetizing windings and contain gaps. These gaps are designed for holding the item being controlled and the calibration item. The middle bar of the core is provided with a measurement winding (see Fig. 1). The device also has an electric generator (made of semiconductor triodes) which supplies the power for the detector. The design increases the device's sensitivity.

Card 1/2

UDC: 531.717.55:621.357.76



ACC NR. AM5011709

MONOGRAPH

IIR

Gruzdev, Igor' Aleksandrovich; Kadomskaya, Kira Panteleymonovna; Kuchumov, Leonid
Aleksandrovich; Luginskiy, Yakov Natanovich; Portney, Marlen Gdalevich; Sokolov,
Nikolay Ivanovich

Using analog computers in power systems; methods for analyzing transient processes (Primeneniye analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh; metody issledovaniy perekhodnykh protesessov) Moscow, Izd-vo "Energiya", 1964. 407 p. illus., biblio. 5,000 copies printed.

TOPIC TAGS: analog computer, electromagnetism, electric engineering, electric power engineering, mathematic model, computer circuit, computer application

PURPOSE AND COVERAGE: This book is concerned with the application of analog computers to the study of electromechanical and electromagnetic transient processes in power systems. It presents methods for mathematical modeling, circuits for special-purpose devices used in general-purpose computer studies, and examples of completed investigations. The book is intended for engineers at scientific research and planning institutes, workers at power systems, and students taking advanced courses in electric power and electromechanics.

TABLE OF CONTENTS [abridged];

Foreword - - 3

Card 1/2

UDC: 681.142.33/.34:620.9

<u> </u>	Wr011700
	CC NR: AM5011709
CI	h. I. Basic decision elements of analog computers 5 h. II. Special-purpose units of analog computers 62 h. III. Equations of the basic elements of an electric system and mathematical modeling 106 h. IV. Modeling of a complex system containing several generators and loads 17: h. V. Analog-computer solutions of equations of transient processes in excitation systems and controllers of primary motor generators 209 h. VI. Analog computer study of transient processes in power systems 260 h. VII. Application of analog computers to the calculation of system-generated
	overvoltage in electric systems 545
	overvoltage in electric systems 346 SUB CODE: 09,13,20/ SUBM DATE: 310ct64/ SOV REF: 083/ OTH REF: 001
	overvoltage in electric systems 545

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342530002-1

L 22157-66 ACC NR: AP6012997 SOURCE CODE: UR/0105/65/000/006/0001/0005

AUTHOR: Mamikonyants, L. G. (Doctor of technical sciences); Portnoy, M. G. (Candidate of technical sciences); Khachaturov, A. A. (Candidate of technical sciences)

ORG: VNIIE

TITIE: Generalization of the results of experimental application of asynchronous operating conditions to power systems

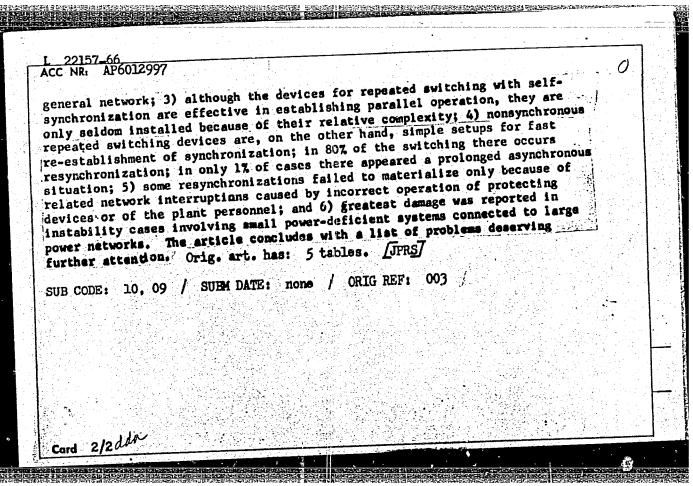
SOURCE: Elektrichestvo, no. 6, 1965, 1-5

TOPIC TAGS: hydroelectric power plant, turbine, electric switch

ABSTRACT: Over the past 15 years brief asynchronous operating conditions have been often used for the increase in stablility and reliability of power systems. It is of importance for the further development of the theory and practice of asynchronous operation to survey and generalize the results of experiences with such types of operation. Consequently, asynchronous operating conditions with such types of operation. Consequently, asynchronous operating conditions affecting entire power systems or their separate parts are being discussed. The results of the study of a large body of data shows that 1) turbogenerators with indirect cooling of windings may work without excitation through 30 min intervals without signs of damage; 2) in hydrogenerators excitationless work leads to significant overloading and, consequently, hydroelectric plants should contain protective devices separating the generator in question from the

Card 1/2

UDC: 621.31



AZAR YEV, D.I., kand. tekhn. nauk (Moskva); VENIKOV, V.A., prof., doktor tekhn. nauk (Moskva); LITKENS, I.V., dotsent, kand. tekhn. nauk (Moskva); MAMIKONIANTS, L.G., prof., doktor tekhn. nauk (Moskva); PORTNOY, M.G., kand. tekhn. nauk (Moskva); SOVALOV, S.A., kand. tekhn. nauk (Moskva)

Fundamentals of the determination of power system stability. Elektrichestvo no.11:1-8 N '63. (MTRA 16:11)

PORTNOY, M.G., kand.tekhn.nauk

Resynchronization of weakly coupled power systems. Trady. VMIIB no.15:4-20 '63.

Use of a small parameter technique in self-oscillatory and resonant systems approaching a conservative state. Ibid.:179-187 (MIRA 16:12)

GORBUNOVA, L.M., inzh.; PORTNOY, M.G., kand.tekhn.nauk

Mathematical modeling of a synchronous machine taking saturation into account. Trudy VNIIE no.15:96-105 '63. (MIRA 16:12)

GLAGOLEVA, N.B., inzh. (Moskva); GOREUNOVA, L.M., inzh. (Moskva); PORTNOY, M.G., kand.tekhn.nauk (Moskva); KHACHATUROV, A.A., kand.tekhn.nauk (Moskva)

Asynchronous characteristics of synchronous generators. Elektrichestvo no.7:29-33 Jl '63. (MIRA 16:9)

(Electric generators)

PORTNOY, M.G., kand. tekhn. nauk; RUDENKO, Yu.N., kand. tekhn. nauk; YASNIKOV, V.N., inzh.

Joining of Siberian power distribution networks by weak intersystem couplings. Elek. sta. 34 no.5:37-43 My *63. (MIRA 16:7)

(Siberia-Interconnected electric utility systems)

5/0105/63/000/007/0029/0033 BDS L.17995-63 ACCESSION NR: AP3004221

AUTHOR: Glagoleva, N. B. (Engineer); Gorbunova, L. M. (Engineer); Portnoy, M. G. (Candidate of technical sciences); Khachaturov, A. A. (Candidate of technical sciences)

TITLE: Asynchronous characteristics of synchronous generators \0

SOURCE: Elektrichestvo, no. 7, 1963, 29-33

TOPIC TAGS: synchronous generator

ABSTRACT: For calculating asynchronous conditions and for resynchronization of generators in power systems, it is necessary to know the synchronous machine parameters as functions of slip within 0.001-0.1. The article suggests a simple method of experimental determination of asynchronous characteristics of steam- and hydro-turbine generators and describes a few actual measurements. The generator is disconnected and demagnetized; then, an a-c voltage

Card 1/2

CIA-RDP86-00513R001342530002-1 'APPROVED FOR RELEASE: 06/15/2000

L 17995-63 ACCESSION NR: AP3004221

from a separate source is applied to the stator while the rotor is driven at various rpm's. Stator current, voltage, and active power are recorded by an escillograph. From this data, the electromagnetic torque and direct-axis and quadrature-axis impedances vs. slip can be calculated (formulas supplied). A type T-2-50-2, 50-Mw, steam-turbine generator (an ASEA) 3.4-Mw, salientpole hydro-, a VG-500/9500 37.4-Mw hydro-, and a VGS-700/100-482 21-Mw hydro-turbine generators were tested. Detailed data is tabulated. G. A. Bakunts, A. P. Germanov, L. M. Zisman, P. I. Lapchenko, and Yu. G. Fokina took part in the tests. The method is recommended for testing prototypes at generator-manufacturing plants. Its drawbacks are: (a) inapplicability in the case of hydroelectric generators without amortisseur windings and (b) neglectance of machine saturation. Orig. art. has: 6 figures, 16 formulas and 1 table.

ASSOCIATION: Vsesoyuzny*y nauchno-issledovatel*skiy institut elektroenergetiki, Moscow (All-Union Scientific Research Institute of Electrical Power Engineering)

SUBMITTED: 07Mar62

DATE ACQ: 08Aug63

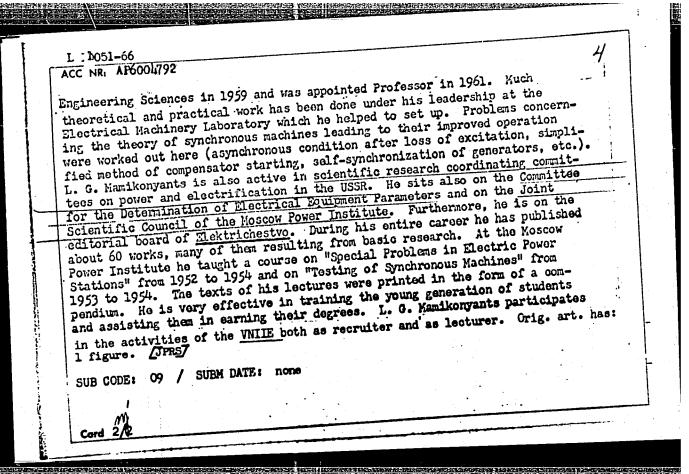
SUB CODE: EE

NO REF SOV: 003

OTHER: 001

Card 2/2

The state of the s	ACC NR. AP6004792 AUTHOR: Burgsdorf, V. V.; Gortinskiy, S. M.; Drozdov, N. G.; Kulakovskiy, V. B.; Lindorf, L. S.; Mel'nikov, N. A.; Patrov, I. I.; Portnoy, M. K.; Syromyatnikov, I. A.; Fedoseyev, A. M.; Khachaturov, A. A.; El'kind, Yu. M. ORG: none TITLE: Doctor of engineering sciences, Professor L. G: Mamikonyants
	SOURCE: Elektrichestvo, no. 5, 1965, 90 TOPIC TAGS: electric engineering personnel, electric engineering ABSTRACT: The article was written in honor of Lev Grazdanovich Mamikonyants on the occasion of his 50th birthday and upon his completion of 30 years of on the occasion of his 50th birthday and upon his completion of 30 years of on the occasion of his 50th birthday and upon his completion of 30 years of on the occasion of his 50th birthday and upon his completion of 30 years of on the occasion of his 50th birthday and upon his completion of 10 years of trial Institute in 1938, whereupon he worked at the Central Industrial Research Laboratory of Azenergo first as Electrical Engineer and then as Chief Engineer. His scientific activity begun during the student years at the university lab- his scientific activity begun during the student years at the university lab- oratories for electrical machinery and high-voltage techniques. From 1941 to oratories for electrical machinery and high-voltage techniques. From 1941 to oratories for electrical machinery and became a member of the Communist Party 1945 he sorved in the Soviet Army and became a member of the Communist Party oratories for electrical machinery and became a member of the Communist Party 1945 he sorved in the Soviet Army and became a member of the Communist Party oratories for electrical machinery and high-voltage techniques. Institute of Electric Power) at the State Industrial Commission on Research Institute of Electric Power) at the State Industrial Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the Department of Electrical Machinery. Laboratory now and also as head of the De



PORTNOY, M.M. Soil studies in slope terracing. Pochvovedenie no. 12:48-56

D 165

1. Moldavskiy nauchno-issledovatel'skiy institut sadovodstva, vinogradarstva i vinodeliya. Submitted January 2, 1963.

CIA-RDP86-00513R001342530002-1" **APPROVED FOR RELEASE: 06/15/2000**

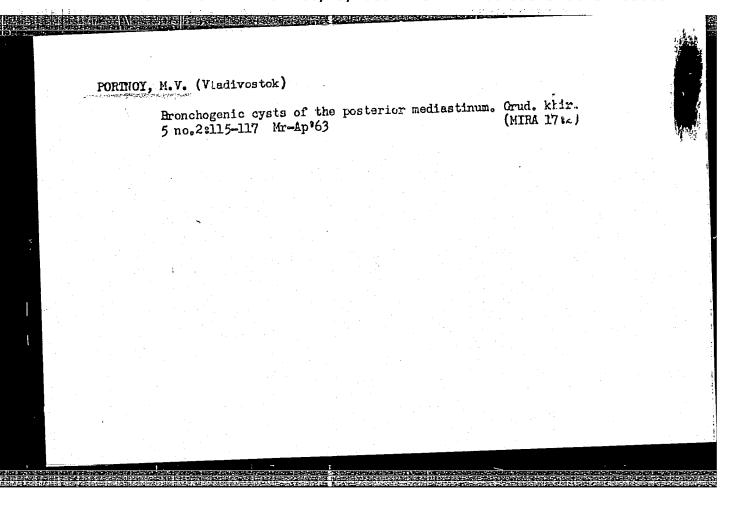
BURGSDORF, V.V.; GORTINSKIY, S.M.; DROZDOV, N.G.; KULAKOVSKIY, V.B.; LINDORF, L.S.; MEL'NIKOV, N.A.; PETROV, I.I.; FORTNOY, M.K.; SYROMYATNIKOV, I.A.; FEDOSEYEV, A.M.; KHACHATUROV, A.A.; ZI, KIND, Yu.M.

Lev Grazdanovich Memikoniants; on his 50th birthday and the 30th anniversary of his scientific and practical work. Elektrichestvo no.5:90 My 65.

KARTYRLISHVILI, Yu.L., kand, tekhn.nauk; PORTNOY, M.Kh., inzh. (Rostov-na-Donu)

Ball screws for electric ballast layers. Put' i put.khoz.
(MIRA 10:12)

(Ballast (Railroads))



PORTNOY, M. L.

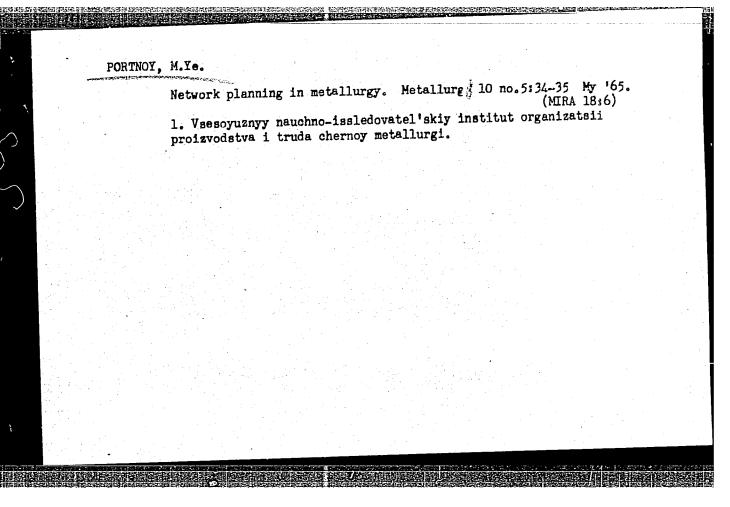
OKraska v mashinostroenii. Kiev, Mashgiz, 1949. 86, [4] p. illus. (Tekhnologiia mashinostroeniia)

Bibliography: p. 7907.

Painting in mechanical engineering.

DLC: TJ1167.P66

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



ZHIVAGO, V.I.; FORTNOY, M.Ye.

[Progressive practices in the repair of heeting arrangements in rolling mills] [oredoved payt rementer nagrevatel nykh ustroisty proketnykh tsekhov. Moskve, Metallurgiia, 1964. 36 p. (MIRA 17:10)

PHASE I BOOK EXPLOITATION

300

Portnoy, Mcisey Yevel'yevich, Engineer

Peredovoy opyt organizatsii remonta martenovskikh pechey (Modern Practice in Open-hearth Furnace Maintenance and Repair); Iz opyta metallurgicheskikh zavodov Pridneprov'ya (Experience of Metallurgical Plants of the Dnieper Region) Dnepropetrovsk, Dnepropetrovskoye oblastnoye izd-vo, 1957. 38 p. (Biblioteka peredovogo opyta) 1,200 copies printed.

Ed.: Shtein, M.; Tech. Ed.: Kolomoytseva, V.

PURPOSE: This pamphlet was written to inform engineers, technicians, foremen and skilled workers engaged in the maintenance and repair of open-hearth furnaces of the most advanced methods of maintenance developed in the metallurgical plants of the

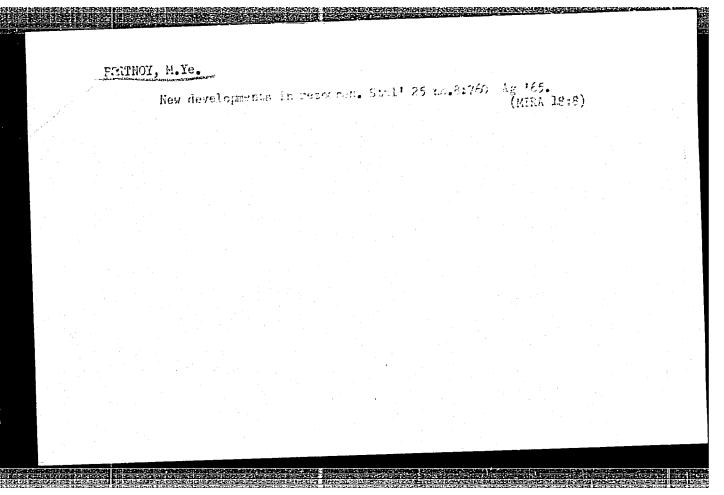
Dnieper area.

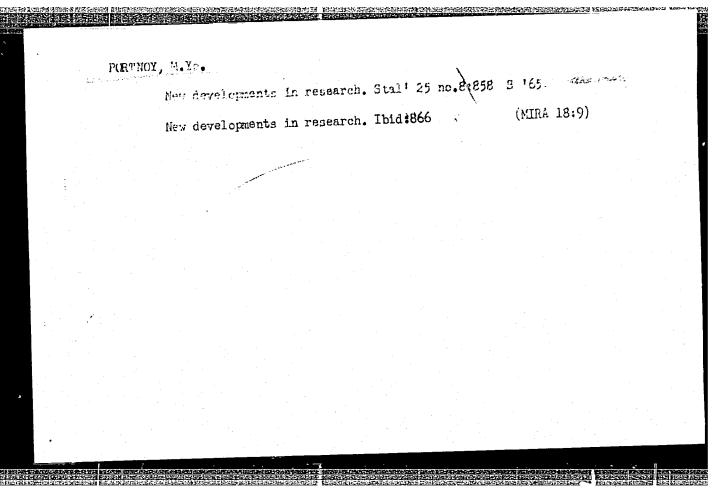
Card 1/4

No.	attice to Oran beauth Purpose Modutanones and (Cont.)	200
modern Pra	The author discusses modern time-saving maintenance and repair methods for open-hearth furnaces as a means of increasing production and of reducing down time. Methods dealing with demolition, removal of debris, and the rebuilding of brickwork by utilizing specially adapted machinery are described in detail. The coordination of work and the proper use of machinery is emphasized. The necessity of following work schedules and of adhering to established technical procedures is also stressed. There are no references and no personalities.	3
TABLE OF CONTENTS:	Introduction	3
	Ch. I. Mechanization of Maintenance and Repair Work	6
	1. Demolition of brick work	6
Card 2/4		

Modern Practice	in Open-hearth Furnace Maintenance and (C	Cont.) 300
2.	Removal of debris from the hearth	11
3•	Removal of slag from slag pockets	17
4.	Demolition of checkerwork	23
5•	Delivery of brick to work site	26
6.	Preparation and feed of mortar	29
Ch. II. O	rganization of Various Stages of Work	30
1.	Preparation of furnace for repair	32
2.	Control of operating conditions and planning of related maintenance and repairs	33
Card 3/4		

	Modern Pract	tice in Open-hearth Fur	nace Maintenance and (Cont	•) 300
•		3. Standardization omethods	f maintenance and repair	34
		4. Modern methods of Plant im. Dzerzhi	masonry work at the	35
	AVAILABLE: I	Library of Congress	(TN740.P65)	
	Card 4/4		CM/lsb 4 June 1958	





BOGUSLAVSKIY, Isaak Yakovlevich; BOCHAROV, Yuriy Grigor'yevich; LEVCHENKO, Dmitriy Vasil'yevich; PORTHOY, Moisey Yevseyevich; MERKOV, S.M., red.; AVRUTSKAYA, R.F., red.izd-va; ISLKNY'YEVA, P.G., tekhn.red.

[Establishing norms and the work organization for the repair of metallurgical furnaces] Tekhnicheskoe normirovanie i organizatsiia truda na remontakh metallurgicheskikh pechei. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 316 p.

(MIRA 13:10)

(Metallurgical furnaces -- Maintenance and repair)

Suppurative follicular cyst in early childhood. Storatologiia 40 (MIRA 14:5) no.1:95-96 Ja-F '61.

1. Iz Izmail'skoy detskoy hol'nitsy (glavnyy vrach S.V.Voltsinger). (TEETH_DISEASES)

PORTNOY, H.Vo., inzhener; SHTEYN, M., redaktor; KOLOMOYTSEVA, V., tekhnicheskiy redaktor

[Progressive practices in repairing opet-hearth furnaces; practices of metallurgical plants of the Dnieper region] Peredovoi opyt remonta martenovskikh pechei; iz opyta metallurgicheskikh zavodov Pridneprovia. [Dnepropetrovsk] Dnepropetrovskoe obl.izd-vo. 1957.

(MLRA 10:9)

38 p.

(Open-hearth furnaces--Maintenance and repair)

PORTHOY, N. D.

Portnoy, H. D. "Automatic flux walding at the Ural Plant ineal Stalin", Trudy Vocations, konf-tsii po avtomat. svarke god flyusod, 3-6 Cotober 1947, Liev, 1,46, p. 2,-33.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

PORTNOY, N.D., kand.tekhn.nauk

Bpot welding of high-capacity railroad cars. Swar. proixw. no.3:19-22
Mr '61.

1. Uralwagonzawod.
(Railroads—Freight cars) (Electric welding)

PORTNOY, N.D., kand.tekhn.nauk; MAZEL', Yu.S., inzh.; OLESHKOV, Yu.V., inzh.

Mechanizing the assembly line for welding freight car chutes.

(MIRA 10:10)

Svar.proizv. no.7:13-16 Jl '57.

1.Uralvagonzavod.

(Railroads--Freight cars--Welding)

(Assembly line methods)

PORTNOY, N.D., kand.tekhn.nauk

Welding AMts, ADl and AMr3 aluminum alloys. Trudy ETO sud. promeno. 33:36-44-159.

(Aluminum alloys—Welding)

PORTION, M.D.; kand.tekhn.nauk; GETERIKHSDOHF, N.G., inzh.

Preventing the formation of cracks in welding AMts alluminum

Preventing the formation of cracks in welding AMts alluminum

alloys. Svar. proizv. no.10:16-18 0 '57. (MIRA 11:1)

1.Ural'skiy vagonostroitel'nyy zavod.
(Aluminum-manganese alloys—Welding)
(Metallography)

-NOY, N.D.

135-10-5/19

AUTHOR:

Portnoy, N.D., Candidate of Technical Sciences, and Geinrikhsdorf, N.G., Engineer

TITLE:

Preventing Cracks When Welding the Aluminum Alloy "AMIL"

(Preduprezhdeniye poyavleniya treshchin pri svarke alyuminiyevogo

splava "AMU"

PERIODICAL:

Svarochnoye Proizvodstvo, 1957, No 10, p 16-18 (USSR)

ABSTRACT:

The article represents the experience of the Urals Railroad Car Plant with welded structures made of aluminum alloys "AMU" During investigations at this plant and at the Electric Welding Institute imeni Paton it was observed that formation of hot cracks during welding subject alloys were caused chiefly by the iron and silicon contents. The standard "FOCT4784-49" permits a content of Fe up to 0.7 % and of Si up to 0.6 %, which was found to be too high. The plant developed its own technical requirements with the assistance of the Institute imeni Paton (Doctor of Technical Sciences V.I. Dobatkin is mentioned in this connection). The information given in the article covers the full chemical composition of the readily weldable alloy "AM4", the flux "AH-A1 Φ " and the coating" A 10" containing ferrosilicon. These com-

Card 1/2

PALLADIN, A.V., akademik; FEDORCHENKO, I.M., akademik; GULYY, M.F., akademik; BAKULIN, D.I.; MEL'NIKOV, N.P., kand.tekhn.nauk; OKERBLOM, N.O., prof., doktor tekhn.nauk; LYUBAVSKIY, K.V., prof. doktor tekhn.nauk, laureat Stalinskikh premiy; PORTNOY, N.D., kand.tekhn.nauk; TSYBAN', N.G.; KULIKOV, M.S., dotsent; AGRONOMOV, S.N., inzh.; POLYAKOV, V.A., inzh.; SHERSTYUK, V.N., inzh.

Congratulations on the publication of the issue no.100 of the "Avtomaticheskaia Svarka" journal. Avtom.svar. 14 no.7:
3-8 J1 '61. (MIRA 14:7)

1. Prezident AN USSR (for Palladin). 2. AN USSR, glavnyy uchenyy sekretar' AN USSR (for Fedorchenko). 3. AN USSR, predsedatel' redaktsionno-izdatel'skogo soveta AN USSR (for Gulyy). 4. Uchenyy sekretar' AN USSR (for Bakulin). 5. Direktor instituta "Proyektstal'konstruktsiya" (for Mel'nikov). 6. Predsedatel sektsii svarochnogo proizvodstva (for Mel'niko-ekonomicheskogo soveta Leningradskogo sovnarkhoza (for Okerblom). 7. Glavnyy svarshchik Uralvagonzavoda (for Portnoy). 8. Glavnyy inzh. zavoda im. Nosenko (for TSyban!). 9. Dal'nevostochnyy politekhnicheskiy institut im. V.V.Kuybysheva (for Kulikov). 10. Dal'zavod (for Agronomov, Polyakov). 11. Dal'nevostochnyy nauchno-issledovatel'skiy institut po stroitel'stvu (for Sherstyuk). (Electric welding--Periedicals)

PORTNOY, N.D.; KONDRATOVICH, V.V.; RABKIN, D.M.; ZVONKOV, M.L.; BOVIN, A.I.; GENRIKHSDORF, N.G.; OLESHKOV, Yu.V.; SHASKIN, A.Ya.; KREGEMAN, P.L.; KHODZHAYEV, A.I.; PISAREVSKIY, M.S.

Automatic welding of aluminum alloy products instead of manual arc welding with a carbon electrode. Suggestion by N.D.Portnoi and others. Prom.energ.ll no.4:21-22 Ap 156. (MIRA 9:7) (Aluminum alloys--Welding)

Pertney, A. P.

137-1957-12-24261

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 193 (USSR)

AUTHORS: Mazel', Yu. S., Oleshkov, Yu. V., Portnoy, N. D.

TITLE: Mechanization of a Manufacturing Production Line for Open-Top-Car

Loading Doors (Mekhanizatsiya linii izgotovleniya lyukov poluvagona)

PERIODICAL: Tekhnol. transp. mashinostroyeniya, 1957, Nr 2, pp 44-50

ABSTRACT: Bibliographic entry

1. Railway cars-Manufacture-Bibliography

Card 1/1

PORTNOY, N., D., LAUREATE OF STALIN PRIZE

Pa. 173T40

USSR/Engineering - Railroad Cars, Welding Nov 50

"Highly Efficient Welding Methods for Heavy Railroad Cars," Engr N. D. Portnoy, Laureate of Stalin Prize

"Avtogen Delo" No 11, pp 17-19

Describes efforts to mechanize labor-consuming welding processes; e.g., use of automatic welding under granular flux layer, and large diam electrodes in manual arc welding. Automatic welding used in 22% of welding work for gondola cars and 16% for box cars. Measures increased work quality with 45% labor reduction.

173140

18(5,7), 32(3)

201/125-59-7-0/19

AUTHOR:

Vazimirov, A.A., Olifer, G.O., Morgun, V.T., Plago-

datskiy, B.I., Portnoy, N.D. and Tyalin, M.M.

TITLE:

Strength of Batch Covers for Open Railroad Preight

Cars Produced by Spot Contact Welding

PERIODICAL:

Avtomaticheskaya svarka, 1959, Wr 7, pp 67-77 (USSR)

ABSTRACT:

The different types of hatch covers are envisaged by the authors for production on a large scale. The first type is made of steel sheets 5 mm thick and has one longitudinal supporting beam in the middle of the cover. The second type is made of sheets 4 mm thick and is provided with two beams. Poth types are produced by the pethod of spot contact welding. In the experimental stage, both types of covers were thoroughly tested and the following conclusions about their properties were drawn: 1) The new covers can stand a 5-7

Card 1/3

times higger strain than the covers used up to now (serial production); 2) Their weight is 161, respecti-

3

207/125-50-7-9/19

Strength of Patch Covers for Open Railroad Preight Cars Prol ond by Spot Contact Welding

> vely 81 kg, less than that of the conventional serial type; 3) The labor used in manufacturing them is by 150 smaller than it is with the certal type of covers; 4) Less weld material is required; 5) their repair is less complicated. The higher cost of actorial (steel sheets) used for making them is fully covered thanks to the saving of labor and spaning of expenses for purchasing of welding material in large quantities, as well as owing to cutting form outlays required for their repair. The exploitation of reilway freight cars equipped with the new type watch covers provides an economy "high rises in proportion with the number of cars using them. There are S tables, 3 photographs and 1 Soviet reference.

ASSOCIATION: 1) Ordena trudovogo krasnogo znameni institut elektro-svarki imeni ye.O. Patona AM USCA (Order of the Red Pammer of Tabor, Institute of Plectric Welfing, AS

904/125-59-7-5/19

Strength of Hatch Covers for Open Railroad Freight Cars Produced by Spot Contact Wolling

UkrSSR imeni Ye.O. Paton)
Lighter Or Tenina, krasnogo znameni, otechestvennoy
vojny I stepeni, trudovogo krasnogo znameni Uraliskiy
vagonostroitel hyy zavod (Order of Tenin, the Order of
the Red Panner, Class I Order of the Patriotic War,
and Order of the Ped Panner of Jabor Ural Car-Puilding Plant)

SUBMITTED:

March 31, 1959

"我们不是我们,我还是自己的的现在分词,我们也是这个人,我们也是这

Card 5/3

SVERZHEVSKIY, V.L.; POLOZHAY, G.T.; PORTNOY, N.Z.; BOGODEROV, M.A.; MARTYNYUK, V.V.

Behavior of roof rock in coal mine stopes. Ugol' 39 no.10:9-12 0 '64. (MIRA 17:12)

1. Trest Artemgeologiya.

AUTHOR:

Portnoy, R.I., Engineer

67-58-3-18/18

TITLE:

Information Material (Spravochnyye materialy)

Technical Data for Rare Gases (Tekhnicheskiye usloviya na redkiye

gazy)

PERIODICAL:

Kislorod, 1958, ..., Nr 3, Inside of Rear Cover (USSR)

ABSTRACT:

This is a table of information containing technical data of the

gases:

Argon technical

Argon pure

Argon highly pure (spectrally pure)

Helium

Helium highly pure (spectrally pure)

Neon-Helium - mixture

Neon highly pure (spectrally pure)

Krypton technical

The table contains data concerning the chemical denomination of the gas and its production, technical characteristic (composition), tare: nature of containers, their volume, color of content. Λ

Card 1/2

special column supplies information concerning delivery, storage,

Information Material. Technical Data for Rare Gases

67-58 -3-18/18

particular properties of gases, etc. There is 1 table.

1. Gases--Tables 2. Gases--Properties

Card 2/2

USCOM.-DC-60062

AUTHOR:

Portnoy, R. I., Engineer

SOV/67-58-4-29/29

TITLE:

Lubricating Oils Which Are Used in Oxygen Production

(Smazochnyye masla, primenyayemyye v kislorodnom proizvodstve)

PERIODICAL:

Kislorod, 1958,

Contract of the Party of the Contract of the

Nr 4, Rear Cover (USSR)

ABSTRACT:

A table contains data concerning various kinds of oil which are used for rolling machines, spindles, general industrial purposes, transformers, cooling machines, freon-refrigerators, turbines, and prevacuum pumps. Data are arranged in columns and refer to: numbers according to GOST or TU, brand of oil, viscosity, ignition temperature, solidification temperature, acid content, coking properties, content of ashes, range of applicability, and special features. The table was compiled according to official State standards (GOST).

1. Lubricating oils—Applications 2. Lubricating oils—Properties 3. Oxygen equipment—Lubrication

Card 1/1

Parthey, R. J

AUTHOR:

Portney, R.I., Engineer

67-58-2-26/26

TITLE:

Technical Data Concerning Gases Supplied and Used by the Soviet Oxygen Industry (Tekhnicheskiye usloviya na gazy, poluchayemyye

i potreblyayemyye v kislorodnom proizvodstve)

PERIODICAL:

Kislorod, 1958,

Nr 2, rear cover (USSR)

ABSTRACT:

This paper contains tables with data concerning industrial gases. The data concern several kinds of nitrogen (gaseous, technical)

and N2 (liquid), NH3 (liquid, synthetic), acetylene C2H2

(technical), H₂ (technical), O₂ (gaseous, technical and medical), and CO₂ (liquefied). The data are in accordance with GOST—and

TU-regulations.

AVAILABLE:

Library of Congress

1. Industry-USSR 2. Gases-Standards 3. Gases-Tables

Card 1/1

TOROCHESHNIKOV, N.S.; BRODYANSKIY, V.M.; PORTNOY, R.I.: ZAKHAROV, V.G.

Copper in the elimination of oxygen from a mixture containing inert gazes. Khim.prom.no.4:224-230 Je '56. (MLEA 9:10) (Copper) (Oxygen) (Gases, Rare)

VLASOV, Valerian Ivanovich; BERMAN, Yakov Isaakovich; KISLOV, A.G., kand. tekhn. nauk, retsenzent; PORTNOY, S.I., otv. red.; AZAROVA, I.G., red.; TSAL, R.K., tekhn. red.

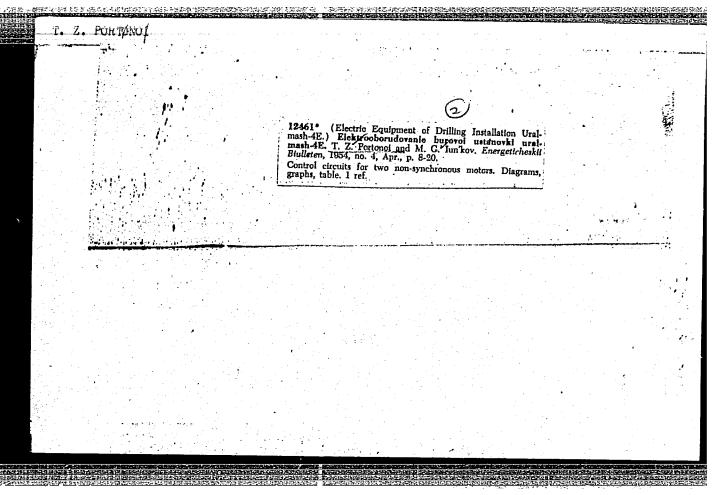
[Design of the high-frequency units of radar stations] Proektirovanie vysokochastotnykh uzlov radiolokatsionnykh stantsii. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 356 p. (MIRA 15:2)

(Radar) (Microwaves)

TARNETSKIY, Aleksey Aleksandrovich; OSIPOV, Dmitriy Dmitriyevich; PORTNOY, S.S., inzh., laurezt Stalinskoy premii, retsenzent; KUPTSOVA, L.P., nauchnyy red.; NIKITIHA, R.D., red.; SHISHKOVA, L.M., tekhn.red.

[Naval radio antennas] Antenny sudovoi radiosviazi. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1960. 234 p. (MIRA 13:11)

(Radio--Antennas) (Radio--Installation on ships)



tok Fivet, it Z:

Subject

: USSR/Electricity

AID P - 1544

Card 1/2 Pub. 28 - 4/7

Authors : Portnoy T. Z. and Yun'kov, M. G.

Title

: On efficiency of electric drive used for drilling oil

wells (Discussion)

Periodical: Energ. byul. 1, 11-24, Ja 1955

Abstract : The author presents the latest achievements of the scientific organizations and manufacturing plants under the auspices of the Ministries of the Petroleum, Heavy Machine Building and Electrotechnical Industries and discusses existing electric drives and equipment for drilling oil wells. AC and DC high and low voltage drives and various wiring diagrams and devices are discussed. Certain recommendations and suggestions

are made, such as:

1) the manufacturing of the electric drives developed

by the above organizations is fully justified;

Subject

: USSR/Electricity

AID P - 3610

Card 1/1

Pub. 28 - 1/7

Author

: Portnoy, T. Z.

Title

Power determination of electric motors used for hoisting

Periodical

: Energ. byul. 10, 1-6, 1955

Abstract

The author analyses four formulae, including those of Skvortsov and Mezhlumov, used for determination of the electric motor characteristics required for operation of hoisting winches of the U2-4-5 and U2-5-4 types. He finds them misleading or erroneous up to 32%, and presents his own formula for determination of the electric motor needed to operate a U2-4-5 hoisting winch. Three sketches and one table.

Institution : None

Submitted

No date

PORTNOY, T.Z.; YUN'KOV, M.G.

Blectrical equipment for secondary operations connected with raising and lewering the teel. Energ. biul. no. 4:21-29 Ap \$56. (MLRA 9:7) (Oil well drilling--Equipment and supplies)

PORTNOY, T. L.

PORTNOY, T.Z.; YUNKOV, M.G.

Development of electric drive for well drilling machinery and for petroleum extraction. Energ.biul. no.ll:17-27 N '57. (MIRA 10:10) (011 well drilling-Equipment and supplies)

AUTHOR:

Portnoy, T.Z.

90-58-5-1/10

TITLE:

The Application of High-Voltage Electromotors for Drilling Winches With a Lifting Capacity of 130 and 200 tons (O primenenii vysokovol'tnykh elektrodvigateley dlya burovykh lebedok gruzopod'yemnost'yu 130-200 t)

PERIODICAL:

Energetich. "iy Byulleten', 1958, Nr 5, pp 1-4 (USSR)

ABSTRACT:

At the present time non-synchronous motors with a phase runner of 160 and 33 kw and a voltage of 500 v are used in the drives of lifting wenches. It is therefore necessary to erect a transformer substation consisting of two transformers (TMB-320/6) for feeding two motors of 160 kw, or of 3 transformers of the same type for two motors of 330 kw. The author proposes the use of high-voltage electromotors, thereby eliminating the transformers. Costs for electric current, assembly work, cables, etc would decrease. In Table 1, the reduction of cost and equipment in the installation Uralmash 6E is given when high-voltage equipment is used. The assembly and operation work is palculated for turbine drillings of 2,000 m depth, with a monthly productivity of 1,400 - 1,600 m. The time balance of these works is given in Table 2. The total loss of current

Card 1/2

90-58-5-1/10

The Application of High-Voltage Electromotors for Drilling Winches With a Lifting Capacity of 130 and 200 tons

in one transformer during the drilling of one hole amounts to 2,252 kw/h. The yearly economy for a high-voltage installation is 26,252 rubels. The cost of assembling and dismounting of the transformers amounts to 6,500 rubels a year. The calculations for a 130-ton winch are summed up in Table 3. The same calculations were also carried out for a 200-ton winch, the time balance of which is given in Table 4, and the technical-economical calculations in Table 5.

There are 5 tables and 1 figure.

AVAILABLE:

Library of Congress

Card 2/2

1. Drilling machines-Equipment 2. Electric motors-Applications

ARKHANGEL'SKIY, N., BABAYEV, M., GLADKOV, M., EL'YASHEVICH, Z., KAMYSHKO, A.;
KUZTATIN, G.,; KULITEV, S., MOVSESOV, N., POPOV, A., PORTHOY, T.,
RIZNIK, A., SEROVA, Ye., TARASOV, A., TULIN, V., SHISHKIM. O.,
SHKOL'NIKOV, B., SHTURMAN, L., CHESHOKOV, V., EFENDIZADE, A.

K.N.Kulizade, cendidate of engineering. Energ.biul. no. 5:23-24
My '58.

(Kulizade, Kiazim Novruz, 1908-)

CIA-RDP86-00513R001342530002-1 "APPROVED FOR RELEASE: 06/15/2000

RTNOY, T.Z.

AUTHOR:

Motsokheyn, B.I.; Portnoy, T.Z.

90-58-6-3/7

TITLE:

An Adjustable Electric Drive for Drilling Pumps (Reguliruyemyy elektroprivod dlya burovykh nasosov)

PERIODICAL: Energeticheskiy Byulleten', 1958, Nr 6, pp 15-21 (USSR)

ABSTRACT:

The author demonstrates that the use of an un-regulatable drive does not permit drilling pumps to function at their full hydraulic efficiency, since it is impossible to select the optimum productivity for the different depth stages of the bore hole. A regulatable electric drive has many advantages in this respect in that: the full drive power of the pump can be used, the number of bush changes in the pump can be cut to a minimum and in a number of cases two pumps working normally can be used instead of three. In addition, altering the rotation speed permits the driller to make allowances for the depth of the bore hole, maintain any pressure constant, adjust working speeds, etc. Modern drilling pumps permit regulation of the drive within the limits 0.8 - 1.25. A typical regulatable electric drive for drilling pumps manufactured by the Uralmashzavod is described. There are 4 graphs, 1 circuit diagram, 3 tables and 6 Soviet references.

Card 1/1

1. Drilling machines-Equipment 2. Pump drives-Electric-Operation

PORTNOY, T.Z., inzh.

Present state and prospects in the development of electric drives for drilling rigs. Elektrichestvo no.5:52-60 My '63.

1. Vsesoyuznyy nauchno-issledovatel skiy institut elektromekhaniki.

(Oil well drilling rigs-Electric driving)

ALEKSANDROV, V.S., inzh.; VORONETSKIY, B.B., kand.tekhn.nauk; PORTNOY, T.Z., inzh.; TISHCHENKO, N.A., inzh.

Present-day work in the field of automatically controlled electric driving. Vest. elektroprom. 32 no.10:7-12 0 '61. (MIRA 14:9)

5/196/62/000/006/011/018 E194/E154

AUTHORS: Aleksandrov, V.S., Voronetskiy, B.B., Portnoy, T.Z.,

and Tishchenko, N.A.

TITLE: The present state of development of automated

electric drives

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.6, 1962, 1, abstract 6 Kl. (Vestn. elektroprom-

sti, no.10, 1961, 7-12).

TEXT: Diagrams are given which show the relative number of drives in various branches of the national economy of the USSR and expected developments are described. New single-armature rolling mill motors are being developed with outputs of 10000-12000 h.p. with high maximum output and good dynamic characteristics. Mercury-arc rectifiers are at present the main type of controlled rectifiers for industrial drive. It is proposed to manufacture sealed single-anode, grid-controlled mercury-arc rectifiers for anode currents of 250-350 and 500 A, including rectifiers with series connected valves and also modernised pumped mercury-arc rectifiers for currents up to Card 1/4

The present state of development ... S/196/62/000/006/011/018 E194/E154

1000 A per anode. New static control systems for drives types IMIT (UMP) and YM311 (UMZP) with outputs up to 30 kW based on magnetic amplifiers have been developed and introduced. Amplifiers of up to 80 kVA per unit have been developed. A number of new designs of automatic electric power generating sets of packaged design have been developed and investigations are being made on industrial prototype computer-controllers for Static systems with magnetic amplifiers have automatic drives. been used in the development of various drive control systems for metallurgy, mining, machine tool manufacture, paper machines, and power station auxilliaries. An automatically controlled drive has been developed in the metallurgical industry for a new automatic conveyor for charging the furnace. Automatic control has been provided for air heaters, casting machines, the furnace-top loading system and wagon weighing machines. rectifiers with a total current of about 1 million amps have been provided for non-reversing rolling mills. An ionic drive is being introduced for reversing rolling mills including the main drives of blooming and slabbing mills. Excavators Card 2/4

The present state of development ... S/196/62/000/006/011/018 E194/E154

standard heavy horizontal milling machines, boring mills, and lathes. A number of heavy machine tools are provided with controlled ionic drives. A multi-motor drive with multi-generator supply system and contactless tachogenerators has been developed for paper machines, and has successfully passed industrial tests. An electrical drive system has been developed for a number of dry cargo ships, river icebreakers, and tugs. Future developments in drives are indicated.

[Abstractor's note: Complete translation.]

Card 4/4

PORTNOY, Teodor Zinov'yevich; YUN'KOV, Mikhail Grigor'yevich; YUR-CHENKO, Petr Ivanovich; PEREVERZEV, V.V., red.; RASTOVA, G.V., vedushchiy red.; MUKHINA, E.A., tekhn.red.

> [Blectric equipment of oil well drilling rigs manufactured by the Ural Machinery Plant] Blektrooborudovanie burovykh ustanovok Uralmashzavoda. Moskva, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1961. 230 p.

(MIRA 14:5)

(Sverdlovsk--Oil well drilling rigs--Electric equipment)

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ZHEVAGO, Konstantin Aleksardrovich; FORTNOY, Teodor Zinoy'yevich;
SHKOL'NIKOV, Bernard Markovich; SOLGANIK, G.Ya., ved. red.

[Drive for drilling rigs] Frivod burovykh ustanovok. Izd.2.
isp. i dop. Moskva, Izd-vo "Neuka," 1964. 406 p.
(NIRA 17:7)

ZHEVAGO, Konstantin Aleksandrovich; PORTNOY, Teodor Zinov'yevich; SHKOL'NIKOV, Bernard Markovich. Prinimal uchastiye SUD, I.I.. MARTYNOVA, M.P., vedushchiy red.; POLOSIMA, A.S., tekhn.red.

[Boring equipment drives] Privod burovykh ustanovok. Moskva.

Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960.

(MIRA 13:6)

362 p.

(Boring machinery)

FAYTEL BERH, R.O.; OCHAN, S.I.; PORTNOYI, L.

Function of salivary glands in stimulation of pleural receptors. Medych, zhur.

22 no.4:84-90 152.

1. Odes'kyy sil's'kohospodars'kyy instytut. (Pleura) (Salivary glands)

(MIRA 6:10)

PORTNOY, H.V., podpolkovnik meditsinskov sluzbby

Changes in preserved blood during storage and transportation on ships. Voen.med.zhur. no.5:15-18 My '59. (MIRA 12:8) (BLOOD, PRESERVED, eff. of sea transportation (Hus))

VISHNEVSKIY, A.A.; DARBINYAN, T.M.; PORTNOY, V.F.; PROMTOVA, T.N.; KHARNAS, S.Sh.

Coronary and carotid perfusion of the heart from the blood circulation in hypothermia. Eksper. khir. 5 no:6:6-16 N-D '60.'

(MIRA 14:2)

(PERFUSION PUMP (HEART))

(HYPOTHERMIA)

PORTNOY, V.F.; MUZYKANT, L.I.

Histochemical study of the myocardium by various methods of experimental heart arrest. Exper.khir.i anest. no.6:29-34. '61. (MIRA 15:5)

1. Iz laboratorii anesteziologii (zav. - kend.med.nauk T.M. Derbinyan) i otdela patomorfologii (zav. - doktor med.nauk D.S. Sarkisov) Instituta khirurgii imeni A.V. Vishenvskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy)

AMN SSSR. (HEART.-MUSCLE) (HEART FAILURE)

PORTNOY, V.F.

Acute form of regional ileitia (Crohn's disease). Sov. med. 25 no.3:117-119 Mr '61. (MIRA 14:3)

1. Is Kurmyshskoy uchastkovoy bol'nitsy Gor'kovskoy oblasti. (REGIONAL ILEITIS)

L 11/71-65 EWG(f)/EWG(r)/EWT(1)/FS(v)-3/EWJ(v)/EWG(a)/EWG(c) Pb-4/Pe-5/Pa-4 AMD/AFTC(b) DD/MLK S/0000/62/000/000/0264/0265

AUTHOR: Portnoy, V. F.; Zubareva, R. A.

TITLE: The influence of deep hypothermia on the electrical activity of the brain. [Report presented at the 14-aya konferensiya fiziologov yuga RSFSR (14th Conference of Southern Physiologists of the PSFSR), held at Krasnodar, 1962]

SOURCE: /Konferentsiya fiziologov yuga RSFSR. 14th, Krasnodar, 1962. Materialy*. Krasnodar, 1962, 264-265

TOPIC TAGS: hypothermia, EEG, brain bioelectricity, dog, brain circulation

ABSTRACT: Variations in the EEG during various states of hypothermia was investigated in 43 experiments in which: 1) dogs were externally cooled over their entire body area (15 tests), 2) dogs were internally cocled using an artificial blood-circulation system (13 tests), and 3) isolated brains of dogs were exposed to deep hypothermia by perfusion. External cooling usually brought on earlier disappearance of cerebral electrical activity, which was accompanied by cardlise disruption at 27-20C. EEG waves were maintained at 26-16C when the body was in-

Card 1/2

L 1117711-65 ACCESSION NR: AT4049171 ternally cooled. However, this method was not free of factors leading to poor circulation in the brain, characterized by increased tonus of the magistral arteries. When isolated brains were cooled by artificial circulation, electrical activity was maintained at brain temperatures

of 20-11C. Consequently, changes in cerebral bioelectricity during deep hypothermia depend upon cerebral circulation which varies accordin to the method used to induce hypothermia.

ASSOCIATION: Laboratoriya anesteziologii Instituta khirurgii imeni A. V. Vishnevskogo AMN SSSR, Moscow (Anesthesiology Laboratory,

Institute of Surgery, AMN SSSR)

SUB CODE: LS ENCL: 00 SUBMITTED: 15May62

ATD PRESS: 3141 OTHER: 000 NO REF SOV: 000

Card 2/2

DARBINYAN, T. M.; PORTNOY, V. F.; KHARNAS, S. Sh.; AVRUTSKIY, M. Ya.; VINITSKAYA, R. S.

General deep hypothermia in heart surgery. Eksper. khir. i anest. no.2:51-58 '62. (MIRA 15:6)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo AMN SSSR (direktor - deystvitel'nyy chlen AMN SSSR, prof. A. A. Vishnevskiy)

(HEART-SURGERY) (HYPOTHERMIA)

PORTNOY,	V.	F.
TOTITIOT		

Method of isolated artificial blood circulation and deep hypothermia of the brain. Eksper. khir. no.3:69-72 (MIRA 15:7)

1. Iz laboratorii anesteziologii (zav. - kandidat meditsinskikh nauk T. M. Darbinyan) Instituta khirurgii imeni A. V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(HYPOTHERMIA) (BRAIN) (PERFUSION PUMP(HEART))

PORTNOY, V.F. (Moskva)

Isolated deep hypothermia of the brain; survey of the literature.
Eksper. khir. i anest. 7 no.4:67-73 Jl-Ag '62. (MIRA 17:5)